

a power supply, carried by the housing, and coupled to the control circuit, wherein the supply includes input terminals for receipt of electrical energy of varying levels; and wherein the control circuitry is responsive to received levels of electrical energy varying over at least 8-30 volts to provide the specified output of illumination.

63. A strobe as in claim 62 which includes circuitry which senses synchronizing pulses received at the input terminals.

64. A strobe as in claim 63 which includes an audible output device and circuitry for driving the output device in response to sensed synchronization pulses.

65. A strobe as in claim 62 which includes a storage capacitor for accumulating electrical energy for triggering the source and wherein the control circuitry includes executable instructions for adjusting a rate of charging the capacitor in response to a received level of electrical energy.

66. A strobe as in claim 65 which includes instructions for increasing a charging duty cycle on a per cycle basis.

67. A strobe as in claim 65 which includes circuitry which senses synchronizing pulses received at the input terminals.

68. A strobe comprising:
a housing;
a light source;
a capacitor coupled to the source;
a candela specifying element;
input terminals for receipt of voltages in one of a range of 8-18 volts and
16-33 volts; and
control circuitry, carried in the housing coupled at least to the capacitor, and the specifying element and instructions for charging the capacitor in accordance with the specifying element and received voltage to drive the source to produce the specified candela.

69. A strobe as in claim 68 wherein the control circuitry stores parameters indicative of each specifiable candela.

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70. A strobe as in claim 68 wherein the control circuitry includes a programmed processor and storage for output parameters associated with respective specifiable candela.

71. A strobe as in claim 70 wherein the processor executes pre-stored instructions for altering a charging rate of the capacitor in response to a selected candela output parameter.

72. A strobe as in claim 71 wherein the control circuitry illuminates the source, at least at a first predetermined rate, and wherein the instructions alter the charging rate between illuminations.

73. A strobe as in claim 72 wherein the instructions repetitively increase the charging rate between illuminations in response to a need to increase capacitor voltage.

74. A strobe as in claim 72 which includes constant frequency, variable duty cycle capacitor charging circuitry.

75. A strobe as in claim 74 wherein the instructions alter the duty cycle in response to applied input voltage.

Respectfully submitted,

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